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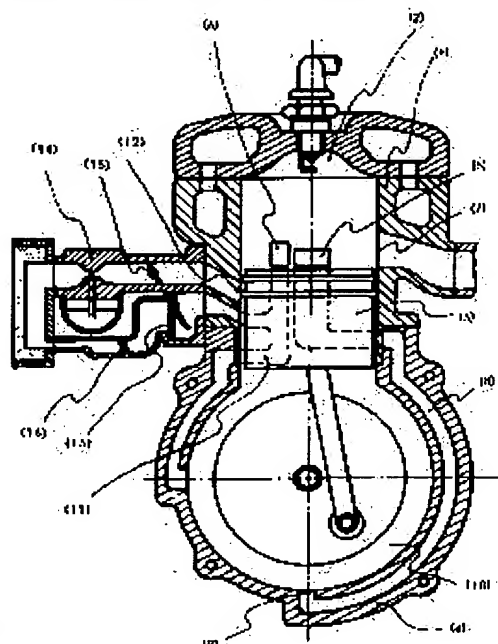
(54) CRANK CHAMBER COMPRESSION 2-CYCLE INTERNAL COMBUSTION ENGINE

(57)Abstract:

PURPOSE: To both prevent blow by of a mixture and perform stable combustion, by performing scavenging only with air from a subscavenge hole prior to main scavenging and then introducing a mixture from a main scavenging hole.

CONSTITUTION: If a piston 3 rises from the bottom dead center, negative pressure is caused in a crank chamber 10, and air flows in respectively through an air throttle valve 16, check valve 13 and subscavenge passage 11, and is sucked in the subscavenge passage 11, if an air suction hole 12 is communicated, a mixture is sucked to the crank chamber 10 through a mixer 14 and mixture throttle valve 15. When the piston lowers from the top dead center, an exhaust hole 7 is firstly opened to discharge after-combustion gas, then a subscavenge hole 6 is opened, and air in the passage 11 performs scavenging by pressure in the crank chamber 10, successively a main scavenging hole 5 is opened, and a mixture inflows from a main scavenging passage 8.

Totalized volume of the subscavenge hole 6 and the passage 11 is arranged to at least 15% the displacement, and blow by is prevented, while stable combustion can be ensured.



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